

# Improving weight-to-weight times for gyro while drilling connections in Norway

## CHALLENGES

- Time consuming gyro while drilling (GWD) operations
  - Longer weight-to-weight (W2W) times due to data QC process
  - Extra time spent conducting check shots to compare GWD and MWD surveys prior to switching from GWD to MWD
- Time consuming analysis of shoetrack drilling

## SOLUTION

- [Corva](#) was used to evaluate the impact of using a Fast Survey procedure for GWD
- Fast Surveys used for GWD once ES>3 were implemented and procedure of switching from GWD to MWD mid-section was discontinued, resulting in:
  - Reduction of ~4 mins in W2W per connection during planned GWD surveys where ES>3
  - Reduction of ~40s W2W per connection where GWD surveys replaced MWD surveys
  - Elimination of time spent conducting check shot surveys
- Custom workflow created for streaming customer TimePlanner API data for shoetrack analysis

## RESULTS

**75 min. saved**  
utilizing fast GWD survey procedure where ES>3

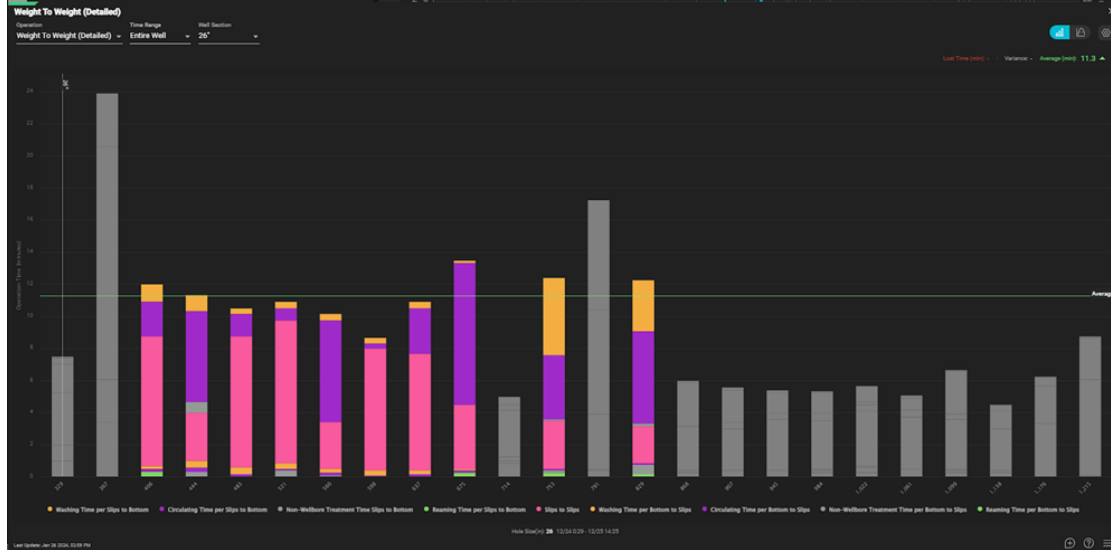
**50% reduction**  
on W2W time connections where GWD was planned and ES > 3

**30 min. saved**  
with streamlined workflow per shoetrack to be analyzed

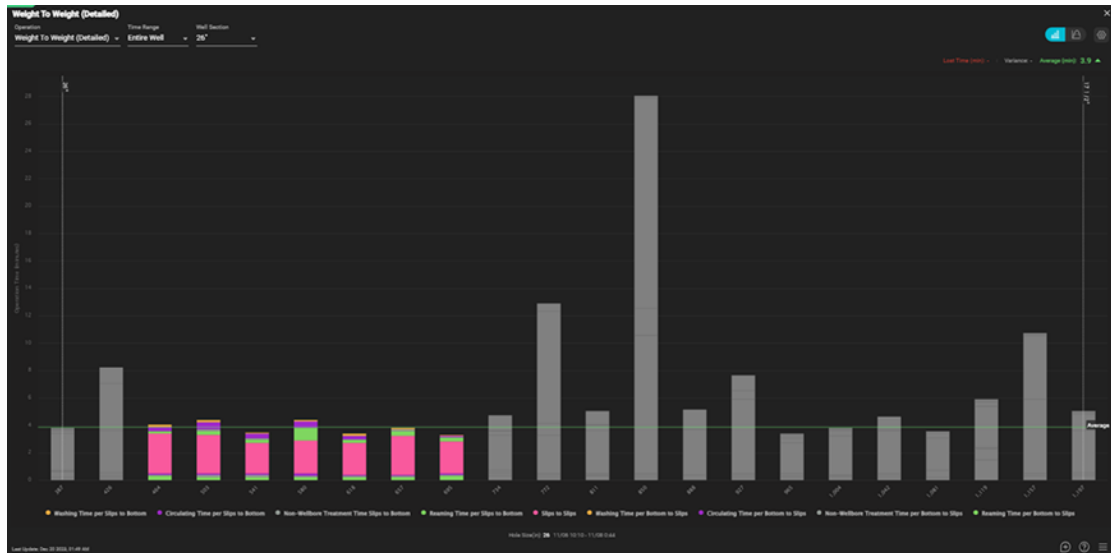
**“The detailed KPI visuals provided by Corva enabled us to gain a better understanding of potential time savings, thereby giving us the extra nudge to step outside of our comfort zone to try something new.”**

– **Karina Systaddal**  
Sr. Performance Engineer

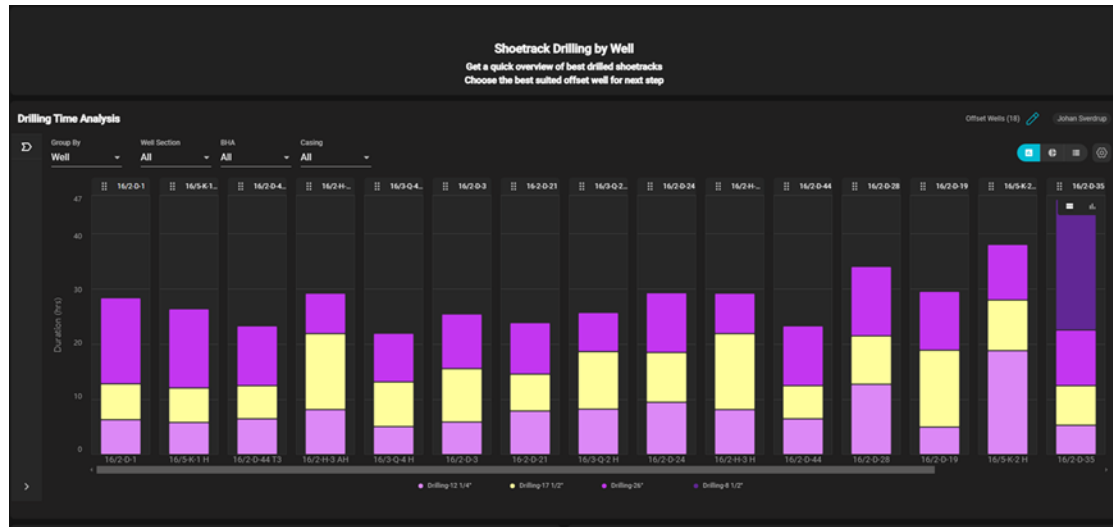
W2W with GWD Standard Survey procedure – 11.3 minutes



W2W with GWD Fast Survey procedure - 3.9 minutes



Overview of time usage stacked per well for each section



Comparing active wells with offset wells for optimization

